IN THE CLAIMS:

Please cancel claims 5, 8, 28, and 29 without prejudice or disclaimer.

Please amend claims 1, 9, 10, 31, 32, and 37 as follows:

- 1. (Amended) A purified and isolated <u>metalloproteinase inhibitor comprising a</u> polypeptide, <u>wherein said polypeptide</u>:
- (a) [having the primary structural conformation] has as a mature protein, an amino terminal amino acid sequence comprising at least the amino acid residues 1 to 42 of Figure 2, and
- (b) [biological properties] has at least one biological activity of naturallyoccurring human metalloprotein ase inhibitor, said biological activity selected from the
 group consisting of in vitro biological activity and immunological activity.

9. (Amended) A polypertide according to Claim 1 [which has the immunological properties] wherein said biological activity of naturally-occurring metalloproteinase inhibitor is immunological activity

10. (Amended) A polypeptide according to Claim 1 [which has the <u>in vitro</u>] wherein said biological activity of naturally-occurring metalloproteinase inhibitor <u>is in vitro biological activity</u>.

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	31. (Amended) Purified and isolated human metalloproteinase inhibitor
	according to Claim 1 in glycosylated or nonglycosylated form free of association with
14	any human protein [in glycosylated or nonglycosylated form].
b'	
•	32. (Amended) A [bharmaceutical] composition comprising [an effective amount
	of a] the polypeptide according to Claim 1 and a pharmaceutically acceptable diluent,
	adjuvant, or carrier.
	37. (Amended) A preparation of [MI] metalloproteinase inhibitor which is greater
b	than 95% pure and which comprises less than 0.5 ng of pyrogen per 0.5 mg of
P	metalloproteinase inhibitor.
	Please add new claims 40-43.
	40. (New) A polypeptide according to claim ∮ wherein said polypeptide is a
	recombinantly produced polypeptide.
n 6	41. (New) A polypeptide according to chaim 9 wherein said immunological
15	activity is an ability to react with rabbit polyclonal antisera raised against human
	metalloproteinase inhibitor.
	42. (New) A polypeptide according to claim 10 wherein said in vitro biological
LAW OFFICES	activity is an ability to inhibit collagenase.
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